

BEST AVAILABLE COPY US-09-762-

us-09-762-491-5.rni

Page 2

RESULT 2
US-09-531-914-2
Sequence 2, Application US/09531914
Patent No. 6267956
GENERAL INFORMATION:
APPLICANT: ZENECA Limited
TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
FILE REFERENCE: PHM.70536
CURRENT APPLICATION NUMBER: US/09/531,914
CURRENT FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 09/329,418
PRIOR FILING DATE: 1999-06-11
NUMBER OF SEQ ID NOS: 39
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 1557
TYPE: DNA
ORGANISM: Homo Sapiens
US-09-531-914-2

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Gencore version 4.5
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OM protein - protein search, using sw model

Run on:

August 13, 2002, 21:14:38 ; Search time 24.14 Seconds

(without alignments)
525.140 Million cell updates/sec

Title: US-09-762-491-6

Perfect score: 2774

Sequence: 1 MSCVKLWPSGAPAPLVSIE.....PKDPEAWSRPGQWYHNSGK2 519

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/pktodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/pktodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/pktodata/2/iaa/5C_COMB.pep:*

4: /cgn2_6/pktodata/2/iaa/6B_COMB.pep:*

5: /cgn2_6/pktodata/2/iaa/PCITS_COMB.pep:*

6: /cgn2_6/pktodata/2/iaa/Backfiles1.pep:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query Score Match Length DB ID

Description

Query Match Best Local Similarity 99.1%; Score 2750; DB 3; Length 518;

Matches 515; Conservative 99.4%; Pred. No. 1; e=210; 1; Mismatches 2; Indels 0; Gaps 0;

Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 7, Appli Sequence 8, Appli Sequence 9, Appli Sequence 10, Appli Sequence 11, Appli Sequence 12, Appli Sequence 13, Appli Sequence 14, Appli Sequence 15, Appli Sequence 16, Appli Sequence 17, Appli Sequence 18, Appli Sequence 19, Appli Sequence 20, Appli Sequence 21, Appli Sequence 22, Appli Sequence 23, Appli Sequence 24, Appli Sequence 25, Appli Sequence 26, Appli Sequence 27, Appli Sequence 28, Appli Sequence 29, Appli Sequence 30, Appli Sequence 31, Appli Sequence 32, Appli Sequence 33, Appli Sequence 34, Appli Sequence 35, Appli Sequence 36, Appli Sequence 37, Appli Sequence 38, Appli Sequence 39, Appli Sequence 40, Appli Sequence 41, Appli Sequence 42, Appli Sequence 43, Appli Sequence 44, Appli Sequence 45, Appli

ALIGNMENTS

RESULT 1 US-09-329-418-3

; Sequence 3, Application US/09329418 ; Patent No. 6096539

; GENERAL INFORMATION: APPLICANT: ZENeca Limited

; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS

; FILE REFERENCE: PHM:7036

; CURRENT APPLICATION NUMBER: US/09/329, 418

; CURRENT FILING DATE: 1999-06-11

; NUMBER OF SEQ ID NOS: 39

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 3 LENGTH: 518

; TYPE: PRT ORGANISM: Homo Sapiens

US-09-329-418-3

28	321	11.6	264	4	US-09-069-023-7	Sequence 7, Appli
29	302	10.9	263	3	US-09-035-706-5	Sequence 5, Appli
30	302	10.9	263	4	US-09-915-841-5	Sequence 5, Appli
31	302	10.9	263	1	US-07-928-464-2	Sequence 2, Appli
32	302	10.9	821	1	US-08-003-311B-2	Sequence 2, Appli
33	302	10.9	821	1	US-08-261-432-2	Sequence 2, Appli
34	302	10.9	821	5	PCT-US93-07347-2	Sequence 10, Appli
35	302	10.9	821	5	US-08-357-53A-10	Sequence 10, Appli
36	290.5	10.5	513	2	US-08-459-009-10	Sequence 2, Appli
37	290.5	10.5	513	2	US-08-300-54-10	Sequence 10, Appli
38	290.5	10.5	513	3	US-08-455-951-10	Sequence 10, Appli
39	290.5	10.5	513	4	US-08-730-168B-13	Sequence 2, Appli
40	290.5	10.5	513	4	US-08-476-123-2	Sequence 5, Appli
41	290.5	10.5	513	4	US-08-459-009-2	Sequence 2, Appli
42	290.5	10.4	521	4	US-08-730-168B-5	Sequence 2, Appli
43	287.5	10.4	516	2	US-08-357-53A-2	Sequence 2, Appli
44	287.5	10.4	516	2	US-08-459-009-2	Sequence 2, Appli
45	287.5	10.4	516	3	US-08-459-951-2	Sequence 2, Appli

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RESULT 2
US 09-531-914-3
; Sequence 3, Application US/09531914
; Patent No. 6267956
; GENERAL INFORMATION:
; APPLICANT: ZENECA Limited
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
; FILE REFERENCE: PHM 70536
; CURRENT APPLICATION NUMBER: US/09/329,418
; CURRENT FILING DATE: 1999-06-11
; CURRENT APPLICATION NUMBER: US/09/531,914
; PRIORITY NUMBER: 09/329,418
; PRIOR FILING DATE: 1999-06-11
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO: 3
; LENGTH: 518
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-531-914-3

Query Match 99.1%; Score 2750; DB 4; Length 518;
Best Local Similarity 99.4%; Pred. 1.7e-210; Matches 515; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Matches 515; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSCVKLWPGAPAPLVSIPELENOELVKGKDFGFTVRAQRKRGYDVAKIVNSKAIRE 60
Db 1 MSCVKLWPGAPAPLVSIPELENOELVKGKDFGFTVRAQRKRGYDVAKIVNSKAIRE 60
Qy 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Db 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Qy 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Db 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Qy 121 LKEVVLGMFLHDQNPVHLRDKPSNTLPDPELVKLAIDFGJSTFOGGSQSTGSGPG 180
Db 121 LKEVVLGMFLHDQNPVHLRDKPSNTLPDPELVKLAIDFGJSTFOGGSQSTGSGPG 180
Qy 181 GTGLYLAPELFVNVRKASTADSYVSGFLMWAVLAGREVELTEPSLVYEAVCNRQNP 240
Db 181 GTGLYLAPELFVNVRKASTADSYVSGFLMWAVLAGREVELTEPSLVYEAVCNRQNP 240
Qy 241 SLAELPQAGETPGLEGKELMQLCWSSERPKDRPSFQECILPKTDEVFQVANNNAAVST 300
Db 241 SLAELPQAGETPGLEGKELMQLCWSSERPKDRPSFQECILPKTDEVFQVANNNAAVST 300
Qy 301 VKDFLSOLQKSNRNPESIISLBSQGSTEMDGFRRTENQHSRNDVAVSEWINKLNLEPPS 360
Db 301 VKDFLSOLQKSNRNPESIISLBSQGSTEMDGFRRTENQHSRNDVAVSEWINKLNLEPPS 360
Qy 361 VPKKCPSLTKRSRAQEEOVPOAHTAGTSSDSMAOPPOTETSRNQMSPTSTGTPSPG 420
Db 361 VPKKCPSLTKRSRAQEEOVPOAHTAGTSSDSMAOPPOTETSRNQMSPTSTGTPSPG 420
Qy 421 PRNGQGAERQGMNSCRTPEPNPTGRPLYNIYCSGVQGDNNYLTMQTTALPTWGLA 480
Db 421 PRNGQGAERQGMNSCRTPEPNPTGRPLYNIYCSGVQGDNNYLTMQTTALPTWGLA 480
Qy 481 PSGKGRGLQHPPPGSQQEGPKDPEAWSRQGWYNSKG 518
Db 481 PSGKGRGLQHPPPGSQQEGPKDPEAWSRQGWYNSKG 518

RESULT 4
US-09-329-418-5
; Sequence 5, Application US/09329418
; Patent No. 6096339
; GENERAL INFORMATION:
; APPLICANT: ZENECA Limited
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
; FILE REFERENCE: PHM 70536
; CURRENT APPLICATION NUMBER: US/09/329,418
; CURRENT FILING DATE: 1999-06-11
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO: 5
; LENGTH: 518
; TYPE: PRT
; ORGANISM: Dartificial Sequence
; OTHER INFORMATION: Dominant Negative Mutant Embodiment
; US-09-329-418-5

Query Match 99.0%; Score 2747; DB 3; Length 518;
Best Local Similarity 99.2%; Pred. No. 2.9e-210; Matches 514; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Matches 514; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSCVKLWPGAPAPLVSIPELENOELVKGKDFGFTVRAQRKRGYDVAKIVNSKAIRE 60
Db 1 MSCVKLWPGAPAPLVSIPELENOELVKGKDFGFTVRAQRKRGYDVAKIVNSKAIRE 60
Qy 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Db 61 VKAMASLDNEFVRLEGVIKEVNVMDQDPKPALVTKFMENGSLSGLQSCPRWPPLCRL 120
Qy 121 LKEVVLGMFLHDQNPVHLRDKPSNTLPDPELVKLAIDFGJSTFOGGSQSTGSGPG 180
Db 121 LKEVVLGMFLHDQNPVHLRDKPSNTLPDPELVKLAIDFGJSTFOGGSQSTGSGPG 180
Qy 181 GTGLYLAPELFVNVRKASTADSYVSGFLMWAVLAGREVELTEPSLVYEAVCNRQNP 240
Db 181 GTGLYLAPELFVNVRKASTADSYVSGFLMWAVLAGREVELTEPSLVYEAVCNRQNP 240
Qy 241 SLAELPQAGETPGLEGKELMQLCWSSERPKDRPSFQECILPKTDEVFQVANNNAAVST 300
Db 241 SLAELPQAGETPGLEGKELMQLCWSSERPKDRPSFQECILPKTDEVFQVANNNAAVST 300
Qy 301 VKDFLSOLQKSNRNPESIISLBSQGSTEMDGFRRTENQHSRNDVAVSEWINKLNLEPPS 360
Db 301 VKDFLSOLQKSNRNPESIISLBSQGSTEMDGFRRTENQHSRNDVAVSEWINKLNLEPPS 360
Qy 361 VPKKCPSLTKRSRAQEEOVPOAHTAGTSSDSMAOPPOTETSRNQMSPTSTGTPSPG 420
Db 361 VPKKCPSLTKRSRAQEEOVPOAHTAGTSSDSMAOPPOTETSRNQMSPTSTGTPSPG 420
Qy 421 PRNGQGAERQGMNSCRTPEPNPTGRPLYNIYCSGVQGDNNYLTMQTTALPTWGLA 480
Db 421 PRNGQGAERQGMNSCRTPEPNPTGRPLYNIYCSGVQGDNNYLTMQTTALPTWGLA 480
Qy 481 PSGKGRGLQHPPPGSQQEGPKDPEAWSRQGWYNSKG 518
Db 481 PSGKGRGLQHPPPGSQQEGPKDPEAWSRQGWYNSKG 518

RESULT 4
US-09-531-914-5
; Sequence 5, Application US/09531914
; Patent No. 6267956
; GENERAL INFORMATION:
; APPLICANT: ZENECA Limited
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
; FILE REFERENCE: PHM 70536
; CURRENT APPLICATION NUMBER: US/09/531,914
; CURRENT FILING DATE: 2000-03-21
; CURRENT APPLICATION NUMBER: US/09/531,914
; PRIORITY NUMBER: 09/329,418
; PRIOR FILING DATE: 1999-06-11

RESULT 3
; Sequence 3, Application US/09531914
; Patent No. 6267956
; GENERAL INFORMATION:
; APPLICANT: ZENECA Limited
; TITLE OF INVENTION: PROTEIN ACTIVATOR OF APOPTOSIS
; FILE REFERENCE: PHM 70536
; CURRENT APPLICATION NUMBER: US/09/329,418
; CURRENT FILING DATE: 1999-06-11
; CURRENT APPLICATION NUMBER: US/09/531,914
; PRIORITY NUMBER: 09/329,418
; PRIOR FILING DATE: 1999-06-11

RESULT 3